

**IN UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Eric C. Perlin et al.

Patent No.: 6,938,244

Issue Date: August 30, 2005

Customer No.: 22971



Examiner: Kendall, Chuck O

Group Art Unit: 2122

Confirmation No.: 3826

Docket No: 33132.02

Title: INTERLACED PROTOCOL FOR SMART CARD APPLICATION DEVELOPMENT

**REQUEST FOR CERTIFICATION OF CORRECTION**

Attn: Certificate of Correction Branch  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

It is requested that a Certificate of Correction be issued correcting printing errors appearing in the above-identified United States patent. Two copies of the text of the Certificate in the suggested form are enclosed.

Issuance of the Certificate of Correction would neither expand nor contract the scope of the claims as properly allowed, and re-examination is not required.

**As the error is that of the Patent Office, it is believed that no fee is due.**

Respectfully submitted,

**Customer Number: 22971**

Date 11/2/2009

By /Henry Gabryjelski/  
Attorney Name: Henry Gabryjelski  
Reg. No.: 62828

CERTIFICATE UNDER 37 CFR § 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: Attn: Certificate of Correction Branch, Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450, on this 18<sup>th</sup> day of February 2010.

Christine Hartness  
Christine Hartness

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.  
(Also Form PTO-1050)

## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO : 6,938,244  
DATED : August 30, 2005  
INVENTOR(S) : Eric C. Perlin et al.

It is certified that errors appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the face page, in field (75), in "Inventors", in column 1, line 2, after "Vinay Deo," delete "Redmond," and insert - - Bellevue, - -, therefor.

In column 1, line 66, after "associated" insert - - , - -.

In column 4, line 8, delete "it" and insert - - its - -, therefor.

In column 4, line 11, delete "circuits" and insert - - circuit - -, therefor.

In column 4, line 32, delete "manufacture." and insert - - manufacturer. - -, therefor.

In column 5, line 23-48, delete

"As alluded to above, the inclusion of the innovative CDI 114 and SCDI 110 within development system 100 support an interlaced debug protocol that interlaces debug frames with standard application frames comprising a normal communication flow between computer system 102 and smart card 104.

**According to one** embodiment, the debug frames are generated in response to user interaction with a debug environment of application development tool 118 executing a smart card application. The debug frames are sent to CDI 114, which identifies the debug frames and interlaces such frames with the normal application frames (generated by the application executing within the application development tool) and sent to smart card 104 via card reader 106 and communication medium 108. SCDI 110 receives the communication from computer system 102, identifies and routes the debug frames to a debug monitor, while application frames are promoted to an appropriate application/resource of the smart card (i.e., as identified by a source/destination address). The received debug frames include debug instructions which selectively invoke smart card resources (e.g., API's device drivers, applications, etc.), providing a user with a heretofore unavailable view of system state information while an application is executing on the smart card. As described above, this state information is **pricelss** during application development." and

MAILING ADDRESS OF SENDER:

PATENT NO. 6,938,244

CPA Global  
P.O. Box 52050  
Minneapolis, MN 55402

No. of additional copies

➡ Page 5 of 7

Atty Docket No: 33132.02

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INVENTOR(S) : Eric C. Perlin et al.

It is certified that errors appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

insert - - As alluded to above, the inclusion of the innovative CDI 114 and SCDI 110 within development system 100 support an interlaced debug protocol that interlaces debug frames with standard application frames comprising a normal communication flow between computer system 102 and smart card 104. **According to one** embodiment, the debug frames are generated in response to user interaction with a debug environment of application development tool 118 executing a smart card application. The debug frames are sent to CDI 114, which identifies the debug frames and interlaces such frames with the normal application frames (generated by the application executing within the application development tool) and sent to smart card 104 via card reader 106 and communication medium 108. SCDI 110 receives the communication from computer system 102, identifies and routes the debug frames to a debug monitor, while application frames are promoted to an appropriate application/resource of the smart card (i.e., as identified by a source/destination address). The received debug frames include debug instructions which selectively invoke smart card resources (e.g., API's, device drivers, applications, etc.), providing a user with a heretofore unavailable view of system state information while an application is executing on the smart card. As described above, this state information is **priceless** during application development. - -, therefor.

In column 6, line 11, delete "independently" and insert - - independent - -, therefor.

In column 7, line 26, delete "derives" and insert - - devices - -, therefor.

In column 8, line 24, delete "a" and insert - - as - -, therefor.

In column 8, line 25, delete "application" and insert - - applications - -, therefor.

In column 8, line 35, delete "making" and insert - - marking - -, therefor.


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It is certified that errors appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In column 8, line 38, delete "making" and insert - - marking - -, therefor.

In column 9, line 23, delete "application" and insert - - applications - -, therefor.

In column 9, line 64, after "API's" insert - -, - -.

In column 10, line 31-32, delete "initiate" and insert - - initiated - -, therefor.

In column 11, line(s) 17-19, after "breakpoint)" delete "Additional debug instructions and their function can be found within the Appendix attached hereto." and insert - - Additional debug instructions and their function can be found within the Appendix attached hereto. - -, therefor on line 18 as a new paragraph.

In column 12, line 4, delete "frame" and insert - - frames - -, therefor.

In column 13, line 12, after "claims" delete "in" and insert - - is - -, therefor.

In column 13, line 36, in Claim 1, delete "tool the application development" and insert - - the application development tool, - -, therefor.

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